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APPLICATION NO.	FILING I	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,904	11/13/2	2003	David J. Baker	25090A	9434
22889	7590	11/21/2005		EXAM	INER
OWENS C	ORNING	HALPER	HALPERN, MARK		
	MBUS ROAD LE, OH 43023	ART UNIT	PAPER NUMBER		
GIGHT VIELE, GIT 150E5				1731	
			DATE MAILED: 11/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)			
Office Action Summary		10/712,904	BAKER ET AL.			
		Examiner	Art Unit			
		Mark Halpern	1731			
	The MAILING DATE of this communication app					
Period fo	or Reply					
WHIC - Externafter - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS ansions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[	Responsive to communication(s) filed on 28 Se	<u>eptember 2005</u> .				
2a)⊠	This action is <b>FINAL</b> . 2b) This	action is non-final.				
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-18 and 27-33 is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-18 and 27-33 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
	The specification is objected to by the Examine The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the E				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen —	•					
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da				
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)			

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#### **DETAILED ACTION**

1) Acknowledgement is made of Amendment received 9/28/2005.

Acknowledgement is made of Amendment received 4/21/2005. Claims 1, 12, 15, are amended, claims 19-26, are cancelled, and new claims 27-33, are offered for consideration.

Claims 1-18, 27-33, are under consideration.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2) Claims 1, 3-6, 8, 12-13, 15-17, 27-33, are rejected under 35 U.S.C. 102(b) as being anticipated by Van Dornick (3,525,604).

Claims 1, 3-6, 8, 12-13, 15-17, 27-32: Van Dornick discloses a melting furnace for refining palletized metalliferous materials. The furnace includes an upstream end, a downstream end, and a roof. The exhaust stack is located at the downstream end, is located downstream of all the burners, and is in communication with the downstream end of the furnace. As shown in Figure 1, the location of the stack at the discharge wall, therefore it is 100 % away from the charge entry. The charge entry of melting materials

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and the burners are located at the upstream end (col. 3, line 62 to col. 7, line 12, Figures 1, 2). The furnace of Van Dornick is capable of melting glass.

Claim 33: pressure differential in different parts of the furnace is a method and not a structural limitation.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3) Claims 2, 7, 10-11, 18, are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Dornick in view of Pflugl (5,925,165).

Claim 2: Van Dornick is applied as above for claim 1, Van Dornick fails to disclose burner mounted in the roof of the furnace. Pflugl discloses glass melting furnace having multiple burners 9, 10, located and mounted in the roof of the furnace (col. 3, line 18 to col. 4, line 46 and Figures 1, 2). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Van Dornick and Pflugl, because such a combination would provide for a more even heating of the melted material in the furnace of Van Dornick.

Claims 7, 10-11, 18: Pflugl glass melting furnace has exhaust ducts 25, 38 located downstream of all of burners (col. 3, line 18 to col. 4, line 46 and Figures 1, 2).

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Claims 9, 14, are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Dornick in view of Hoke (6,519,973). Van Dornick is applied as above for claims 1, 12, Van Dornick does not disclose that the exhaust is located at a sidewall of the furnace. Hoke discloses a glass melting furnace where exhausts 145, 147, are located at sidewalls of the furnace as shown in Figure 7. It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Van Dornick and Hoke, because such a combination would improve glass quality in the design of Van Dornick as disclosed by Hoke (Abstract).

### Response to Amendment

- 5) Objection under 35 U.S.C. 132(a) is withdrawn.
- 6) Claims 1-18, 27-33, rejection under 35 U.S.C. 112, first paragraph, is withdrawn.
- 7) Claims 1-7, 10, 15, 17-18, rejection under 35 U.S.C. 102(b) as being anticipated by Pflugl (5,925,165), is withdrawn.
- 8) Claim 12, rejection under 35 U.S.C. 103(a) as being unpatentable over Pflugl, is withdrawn.
- 9) Claims 8, 16, rejection under 35 U.S.C. 103(a) as being unpatentable over Pflugl in view of Bly (4,481,024), is withdrawn.
- 10) Claims 9, 11, 14, rejection under 35 U.S.C. 103(a) as being unpatentable over Pflugl in view of Hoke (6,519,973), is withdrawn.
- 11) Claim 13 rejection under 35 U.S.C. 103(a) as being unpatentable over Pflugl in view of Hoke and further in view of Bly, is withdrawn.

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12) Claims 1-6, 8, rejection under 35 U.S.C. 102(b) as being anticipated by Boyle (3,552,949), is withdrawn.

13) Applicant's arguments with respect to pending claims have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

14) Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

15) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 571-272-1190. The examiner can normally be reached on Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Halpern

Mark Halpern

Primary Examiner

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